

Beltrami equations revisited: Marcinkiewicz exponents and Painleve -type theorem

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Abstract

© Petrozavodsk State University, 2018. We deal with some new results on some types of Beltrami equations. There is a new approach involving the new metric characteristics: the Marcinkiewicz exponents. Another vision is applying the Cauchy - type integral representation to such equations. One more idea is to obtain analogs of some classical theorems for such equations.

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Keywords

Boundary value problem, Fractals, Non-rectifiable curves, Riemann boundary value problem

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